

C.3. List of linkages, consortia and networking

Collaborating Agencies

 Regional

 National

 International

- > SOXAARRDEC
- > DOST Region XII
- > CRIEERDC
- > PCHRD

Collaborating Agencies

 Regional

 National

 International

- > Department of Agriculture
 - > Bureau of Agricultural Research
 - > Philippine Carabao Center
 - > Bureau of Fisheries & Aquatic Resources
 - > Agricultural Training Institute
 - > Philippine Coconut Authority
- > Department of Science & Technology
 - > PCAARRD
 - > PCIEERD
 - > PCHRD
 - > NRCP
- > Department of Trade & Industry
- > Commission of Higher Education
- > Philippine Industrial Crops Research Institute

List of Extension Linkages

YEAR	PARTNER INSTITUTION/ORGANIZATION	TYPE	PROJECT TITLE	TARGET BENEFICIARIES/AREA
2023	Nangaan Elementary School	Local (DepEd)	Strengthening mother-tongue based education of elementary teachers in DepEd Cotabato/MBHTE BARMM through instructional materials development and validation.	Teachers and Pupils of Nangaan Elementary School
2025	Salvacion High School	Local (DepEd)	Strengthening Barangay High Schools: Validating and Implementing Representation Approach-Based Learning Materials for Independent Study of Mathematics in Remote Schools	Teachers and Students of Salvacion High School

Attachment:

- Picture with label
- Attendance Record

Pictures:

2023 Extension Project



Figure 1. Group Photo with Teachers of Nangaan Elementary School



Figure 2. Inception Meeting with Teachers of Nangaan Elem. School



University of Southern Mindanao
EXTENSION SERVICES CENTER
Kabacan, Cotabato
ATTENDANCE SHEET



ACTIVITY: strengthening mother-tongue based education of elementary teachers in DepEd Cotabato through instructional materials development and validation
VENUE: GS Hall, USM DATE: APRIL 23, 2024

SPONSORS: _____

No.	Name	Gender	Designation/ Affiliation	Office/ Unit/ Organization	Mobile Number/ Email Address	Signature
1.	Jennifer R - PAMA	F	Asso Prof. V / DMS	Dept of Math / CSM	USM 0951254100	Jennifer
2.	Sandra A. Nanding	F		Dept of Math / CSM	09206992397	Sandra
3.	Robert N. Ferraven	M	BSDM - student	Dept. of CBDEM / ESO	09631048066	Robert
4.	Jeriel C. Dorego	F	BSDM student	Dept. of CBDEM / ESO	0970 353 4388	Jeriel
5.	Saguira M. Abdullahi	F	BSDM student	CBDEM / ESO	09663113145	Saguira
6.	Langan, Painsan M.	F	BSDM student	Dept. of CBDEM / ESO	09381015655	Langan
7.	PAVETA, LEONARDO M.	M	MATH-CSM-USM			PAVETA
8.	RUEL S. VALENTON	M	Math - Csm - usm	Math & Stat Dept	09497750905	RUEL
9.	Daryl Mae Marm	F	Math	Math	09504463259	Daryl
10.	Fathia M. Afzal	F	Teacher - I	MBHE - BARM	09050884949	Fathia
11.	Romina P. Tacumken	F	Teacher - I	MBHE - BARM	0975250803	Romina
12.	Bhai P. Mangunto	F	Teacher - I	MBHE - BARM	0916125019	Bhai
13.	BRIVONNE L. SOLARMAN	F	Teacher - I	MBHE - BARM	09046857718	BRIVONNE
14.	Muhaima M. Bakyanon	F	T-III	MBHE - BARM	09858411398	Muhaima
15.	MONA L. ALON	F	T-I	MBHE - BARM	09461513546	MONA



University of Southern Mindanao
EXTENSION SERVICES CENTER
Kabacan, Cotabato
ATTENDANCE SHEET



ACTIVITY: _____

VENUE: _____ DATE: _____

SPONSORS: _____

No.	Name	Gender	Designation/ Affiliation	Office/ Unit/ Organization	Mobile Number/ Email Address	Signature
16.	MIKKO ANGELA M. ELIAS	F	T-I	MBHE - BARM	09855114547	
17.	JOLANNAE P. TORRES	F	T-I	MBHE - BARM	0952840747	
18.	ROSHAINA W. KAMENKA	F	T-I	MBHE - BARM	0926310983	
19.	SARITHJERN A. SAMPUAN	F	T-III/IC	MBHE - BARM	09120411599	
20.	AMELIDA B. KASAN	F	T-I	MBHE - BARM	0915040514	
21.	JEAN'ETH R. LICAROS	F	Assoc Prof	Math & Stat Dept./CSM	09120821356	
22.	ANNA JEAN S. GARCIA	F	Assoc Prof	Math + Stat Dept/CSM	09728812468	
23.	JETHANIE MAR M. GANI	F	DM	CODEM / BDO	09977823820	
24.	Lawrence Tandang	F	Prof VI	GS / CSM		
25.	Donald L. Pimentel	M	Prof VI	Math & Stat.		
26.	MAURICIO J. MACALON JR	M	Assoc I	Math & Stat		
27.	Sarah B. Lurambak					
28.	ARNEZ B. DOLAN			MATH + STAT DEPT		
29.	RONEL MADU	M	Assoc Prof 4	MATH & STAT		
30.	PANAL LORAN GONZALEZ	M	Assoc Prof 5	MATH and STAT		

Pictures:

2025 Extension Project



Figure 1: Group Photo with participants and training facilitators



Figure 2: Teachers of Salvacion High School during the Workshop



UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines



ATTENDANCE SHEET

Date:	
Venue:	
Unit:	
[] Training [] Meeting	
Participants:	
Coordinator:	
Resource Speaker/s:	

No.	Name	Office	Email Address/Contact No. (optional)	Signature
79.	PHILGO, Jupiter G.	USM	jgphilgo@usm.edu.ph	
80.	BELIAMUN, PAUL USTOR	USM		
81.	DOMINIC C. CARAJAY	USM	dcara-jay@usm.edu.ph	
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89.	Nanding, Sandra A.	USM		
90.				
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UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines



ATTENDANCE SHEET

Date:	
Venue:	
Unit:	
[] Training [] Meeting	
Participants:	
Coordinator:	
Resource Speaker/s:	

No.	Name	Office	Email Address/Contact No. (optional)	Signature
53.	Marko Jan C. Alvario	DepEd	markojan.alvario@depd.gov.ph	
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61.	GINOP, MARICA	Student		
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73.	DARYL MAE MAMON	USM - Math		
74.	Tamalak, Fitence Ann	USM - Math		
75.	SABA, JIMMY MARK M.	DepEd		
76.	AMBIL, NORA P.	DEPED		
77.	ESTILLORE, NORMAN UHRE	DEPED		
78.	Palmas, Hannah Jane Faith A.	USM	hjfapalmas@usm.edu.ph	



UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines



ATTENDANCE SHEET

Date:	
Venue:	
Unit:	
[] Training [] Meeting	
Participants:	
Coordinator:	
Resource Speaker/s:	

No.	Name	Office	Email Address/Contact No. (optional)	Signature
27.	Ramirez, Mary LJ C.	DEPED	maryljramirez@depd.gov.ph	
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29.	Valencia, Apple Mae R.	DepEd	applemaevalencia@gmail.com	
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31.	BATIWA, Samuel Faith S.	New Grad	asmiraharrah@gmail.com	
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33.	FLORES, BRIAN JOHN G.	STUDENT		
34.	LAGANA, MARY ALETH D.	DEPED	maryalethlagana44@gmail.com	
35.	JURADO, MARIA CHRISTOLITE V.	STUDENT	j.vicjurado@usm.edu.ph	
36.	RECORTE, KESHL	STUDENT		
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38.	BERNARDINO, RHEA CATINE	STUDENT		
39.	SAMSIDAH R. HEBIB	DepEd		
40.	DIMALANES, RAFAEL M.	Student	dimalanestaiabai@gmail.com	
41.	Tidula, Regine C.	Student		
42.	KAMENJA, MICHAEL M.	DEPED	michael	
43.	Pascua, Jankel D.	DEPED		
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47.	Pibo, Jehad H.	MSU-Mag.	jehadpibo@gmail.com	
48.	Abdul Latif, Faiza M.	MSU-Mag.	fushatfat@gmail.com	
49.	Meto, Rahmiza M.	MSU-Mag.	rahmizameto@usm.edu.ph	
50.	Arpal, Mario Jr.	Student	marioarpal@gmail.com	
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52.	DAYA, JAY MARK Y.	USM	jaydaya@usm.edu.ph	



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Kabacan, Cotabato
Philippines



ATTENDANCE SHEET

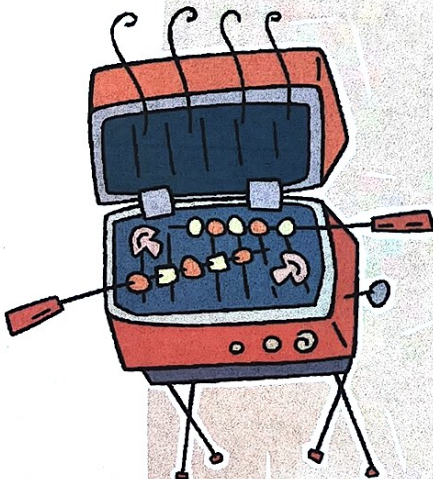
Date:	May 30, 2023
Venue:	GS Hall, USM
Unit:	
[] Training [] Meeting	
Participants:	
Coordinator:	
Resource Speaker/s:	

No.	Name	Office	Email Address/Contact No. (optional)	Signature
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10.	MONTANG, NORODIN D.	DepEd	norodinmontang@depd.gov.ph	
11.	BORNEA, EMACIL A.	Student MSNM		
12.	Juntilla, Wicard	DepEd		
13.	Amoroso, Chr Anie T.	DEPED	amorisochromatic@gmail.com	
14.	Hernandez, Edmund H.	DepEd		
15.	Sampen, Jeany Rose B.	NDC		
16.	LAGAT, JERCON M.	DEPED		
17.	GONZALLO, NISA MAEB.	DEPED	nysagmail@gmail.com	
18.	KAMBAVA, MICHAEL M.	DEPED		
19.	PIRANG, OTON KIER D.	USM	ikier023@gmail.com	
20.	Phonhpa Ponsang	USM	phonhpa@usm.edu.ph	
21.	Paul John B. Ongcoy	CEO	regonem@gmail.com	
22.	FRUEN, NORMAN D.	CRCSE		
23.	ALB NORMAN E.	CR		
24.	ANUEL C. CANGA	DEPED	anuelcanga@gmail.com	
25.	Ma. Graciela G. Hiram	CHOD	meghira@gmail.com	
26.	MIKKI M. MICALDO	DepEd	mikki.micaldo@gmail.com	

Monitoring & Accomplishment Reports

3rd Quarter M & A Report
4th Quarter M & A Report

1st Quarter M&A Report
2nd Quarter M&A Report
3rd Quarter M&A Report
4th Quarter M&A Report





University of Southern Mindanao
EXTENSION SERVICES OFFICE
Kabacan, North Cotabato



MONITORING/ ACCOMPLISHMENT REPORT

for the 4th Quarter, C.Y. 2023

Project Title: Strengthening Mother-tongue based Education of Elementary Teachers in DepEd Cotabato/MBHTE BARMM through Development and Validation of Instructional Materials for Elementary Mathematics

Proponent/s: Philip Lester Benjamin, Sandra Nanding, Leorence Tandog, Debbie Marie Verzosa, Florie Jane Tamon, Rowel Madio, Roel Valenton, Anna Jean Garcia, Leonard Paleta, Meriam Rubio, Jeaneth Licaros, Daryl Mae Mamon, Jonald Pimentel, Jennifer Pama, Honey Vincent Valle

College/Unit: Graduate School/College of Science and Mathematics

ACTIVITIES	Accomplishment		% Completion (Cumulative)	Problem/s Encountered	Action/s Taken	Remarks/ Recommendations
	Target	Actual				
% Completion 3 rd Quarter			55%			
Validation of the instructional materials	25%	100%	80%	None	None	
Report Writing	20%	100%	100%	None	None	

Prepared by:

Noted by:

Philip Lester P. Benjamin

Project Leader

December 18, 2023

Date

Leorence C. Tandog

College/Unit Head

December 18, 2023

Date

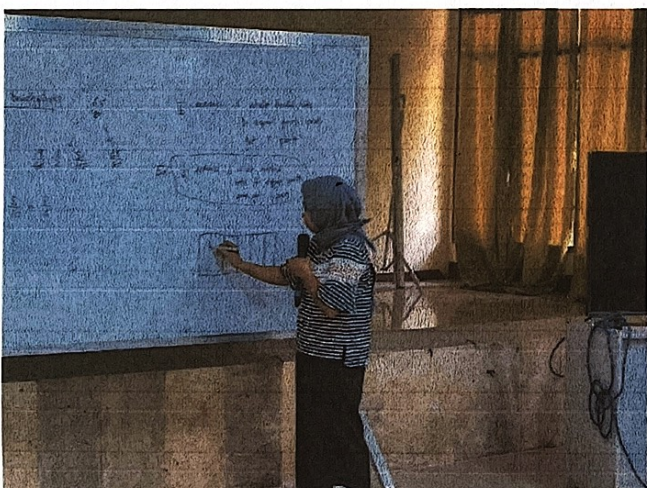
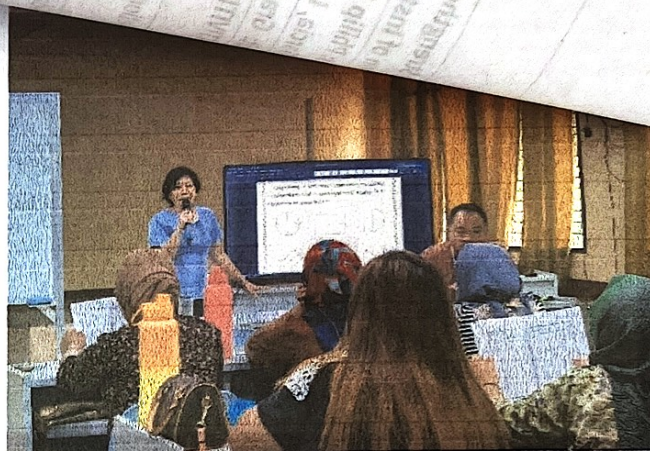
Mary Joy S. Cañolas

Director for Extension Services

December 21, 2023

Date

Attachments



Training session on instructional material (IM) development and simplified fraction explanations led by Dr. Debbie Marie Verzosa, held at the GS Hall, USM. The session focused on equipping educators with effective strategies to create engaging IMs and teach fractions in a straightforward manner.

Additionally, the validation process for the IMs developed was overseen by Dr. Leorence Tandog and a team of experts, ensuring alignment with educational standards and effectiveness in facilitating learning.



University of Southern Mindanao
EXTENSION SERVICES OFFICE
Kabacan, North Cotabato



MONITORING/ ACCOMPLISHMENT REPORT

for the 3rd Quarter, C.Y. 2023

Project Title: Strengthening Mother-tongue based Education of Elementary Teachers in DepEd Cotabato/MBHTE BARMM through Development and Validation of Instructional Materials for Elementary Mathematics

Proponent/s: Philip Lester Benjamin, Sandra Nanding, Leorence Tandog, Debbie Marie Verzosa, Florie Jane Tamon, Rowel Madio, Roel Valenton, Anna Jean Garcia, Leonard Paleta, Meriam Rubio, Jeaneth Licaros, Daryl Mae Mamon, Jonald Pimentel, Jennifer Pama, Honey Vincent Valle

College/Unit: Graduate School/College of Science and Mathematics

ACTIVITIES	Accomplishment		% Completion (Cumulative)	Problem/s Encountered	Action/s Taken	Remarks/ Recommendations
	Target	Actual				
% Completion 2 nd Quarter			55%			
Validation of the instructional materials	25%	0%	55%	Unable to proceed due to scheduling conflict	Identified scheduling conflict and attempted to reschedule	

Prepared by:

Noted by:

Philip Lester Benjamin

Project Leader

September 11, 2023

Date

Leorence C. Tandog

College/Unit Head

September 11, 2023

Date

Mary Joy S. Cañolas

Director for Extension Services

September 14, 2023

Date



University of Southern Mindanao
EXTENSION SERVICES OFFICE
Kabacan, North Cotabato



MONITORING/ ACCOMPLISHMENT REPORT

for the 2nd Quarter, C.Y. 2023

Project Title: Strengthening Mother-tongue based Education of Elementary Teachers in DepEd Cotabato/MBHTE BARMIM through Development and Validation of Instructional Materials for Elementary Mathematics

Proponent/s: Philip Lester Benjamin, Sandra Nanding, Leorence Tandog, Debbie Marie Verzosa, Florie Jane Tamon, Rowel Madio, Roel Valenton, Anna Jean Garcia, Leonard Paleta, Meriam Rubio, Jeaneth Licaros, Daryl Mae Mamon, Jonald Pimentel, Jennifer Pama, Honey Vincent Valle

College/Unit: Graduate School/College of Science and Mathematics

ACTIVITIES	Accomplishment		% Completion (Cumulative)	Problem/s Encountered	Action/s Taken	Remarks/ Recommendations
	Target	Actual				
% Completion 1 st Quarter			30%			
Development and refining of existing IMs	25%	100%	55%	None	None	

Prepared by:

Noted by:


PHILIP LESTER P. BENJAMIN

Project Leader

July 3, 2023

Date


LEORENCE TANDOG

College/Unit Head

July 3, 2023

Date

MARY JOY S. CAÑOLAS
Director for Extension Services

July 5, 2023

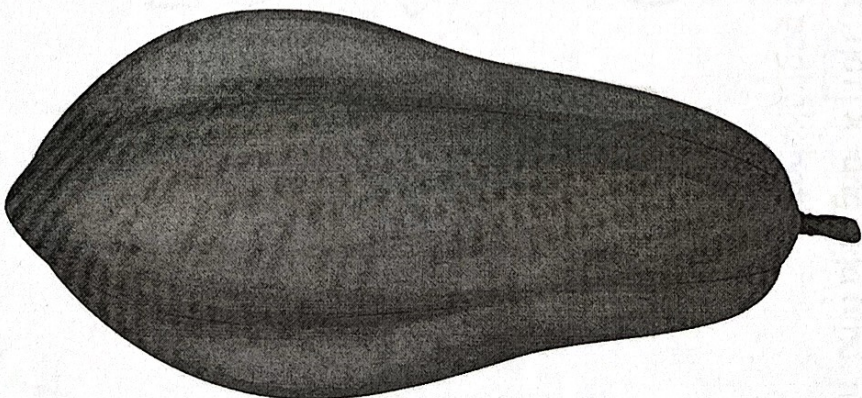
Date

Name: _____
Edad: _____
Birthday: _____
School: _____
Grade Level: _____



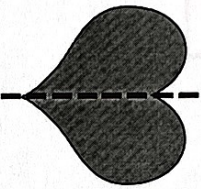
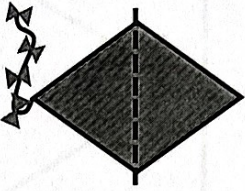
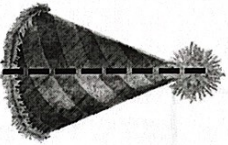
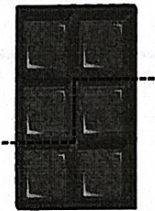
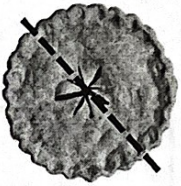
? Gawin Natin 'to

Hatiin sa dalawang pantay na bahagi itong papaya.

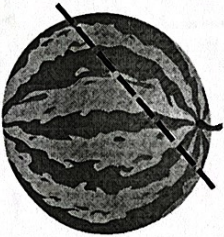
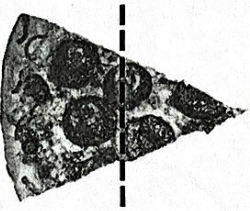


? Suriin Natin 'to

Pantay na Pagkahati sa Dalawa

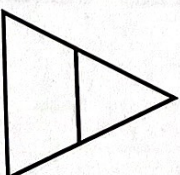
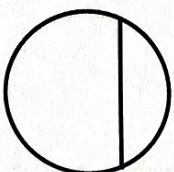
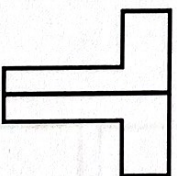
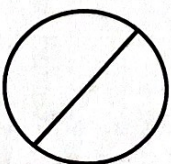
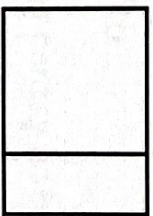
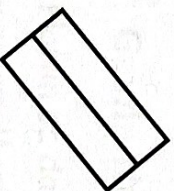
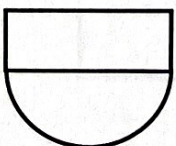
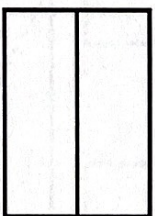
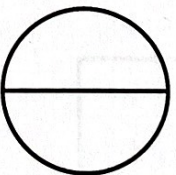


Hindi Pantay na Pagkahati sa Dalawa



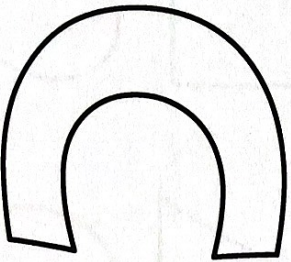
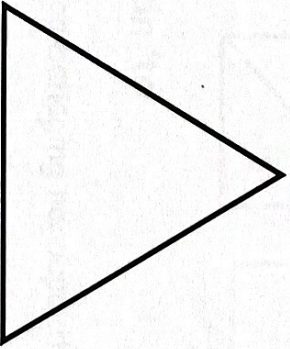
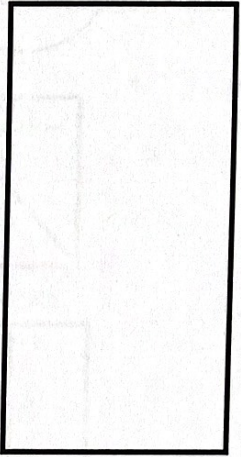
? Gawin Natin 'to

Lagyan ng ☒ ang mga nagpapakita ng pantay na pagkakahati ☐ at x ang mga hindi nagpapakita ng pantay na pagkakahati.



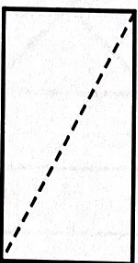
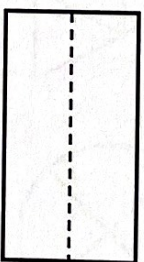
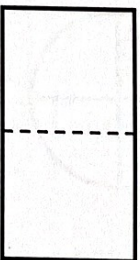
? Gawin Natin 'to

Hatiin sa dalawang pantay na bahagi ang mga sumusunod:



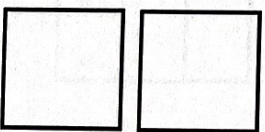
? Suriin Natin 'to

Maraming paraan para hatiin sa pantay na bahagi ang isang parihaba o rectangle. Ang mga sumusunod ay ilang mga halimbawa:



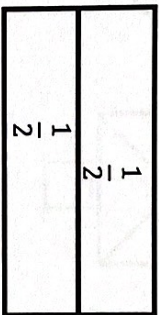
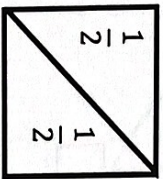
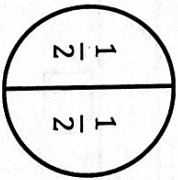
? Gawin Natin 'to

Hatiin sa dalawang pantay na bahagi ang bawat parisukat. Magbigay ng iba't-ibang klase ng pagkahati.



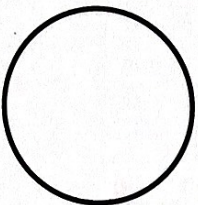
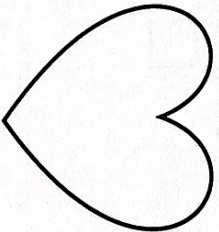
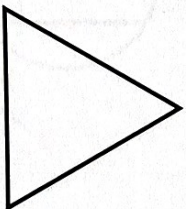
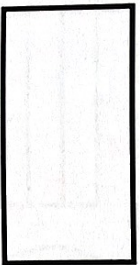
Isang Kalahati o One Half ($\frac{1}{2}$)

Ang isang piraso ng isang buo na hinati sa dalawang magkapatay na bahagi ay tinatawag na $\frac{1}{2}$ (one half).



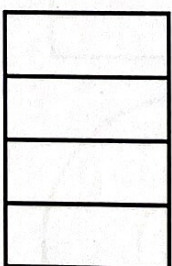
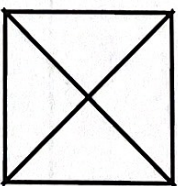
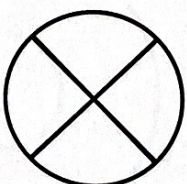
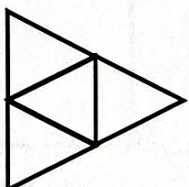
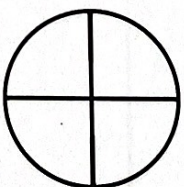
Gawin Natin 'to

Gumuhit ng mga bahaging nagpapakita ng $\frac{1}{2}$.

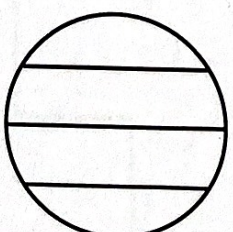
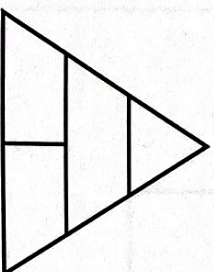
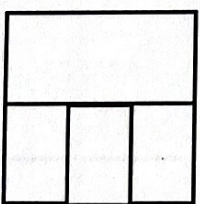


? Suriin Natin 'to

Pantay na Pagkakahati sa Apat

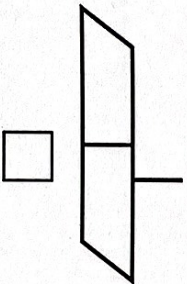
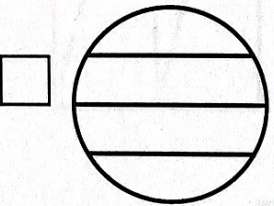
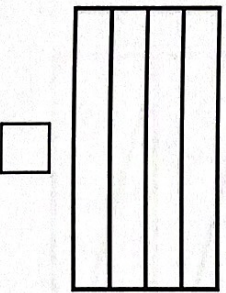
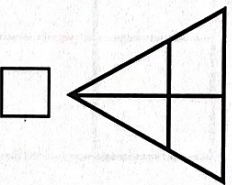
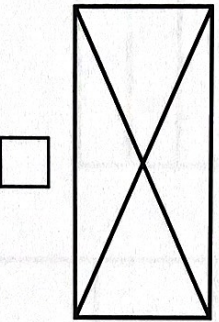
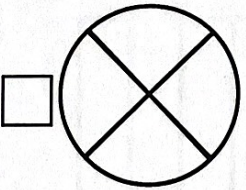
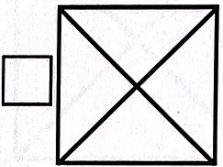
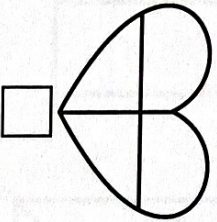
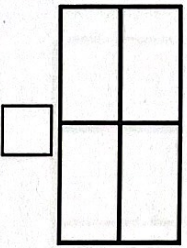


Hindi Pantay na Pagkakahati sa Apat



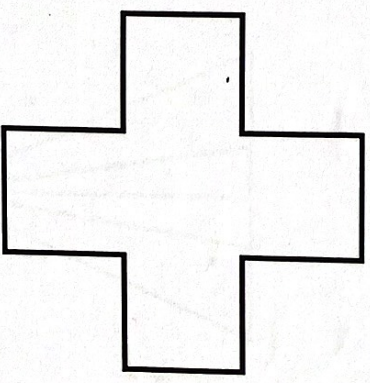
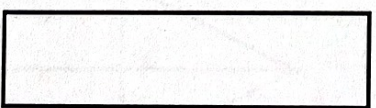
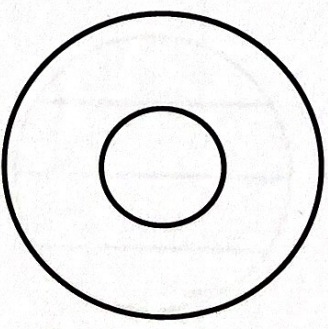
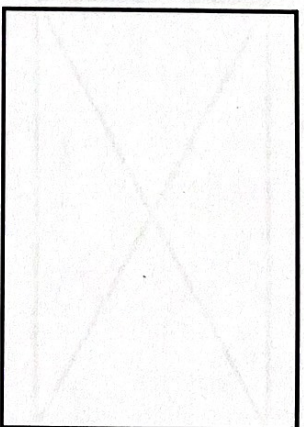
Gawin Natin 'to

Lagyan ng ☒ ang mga magpapakita ng pantay na pagkakahati at ☐ ang mga hindi magpapakita ng pantay na pagkakahati.



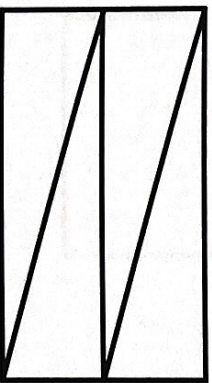
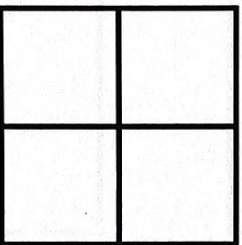
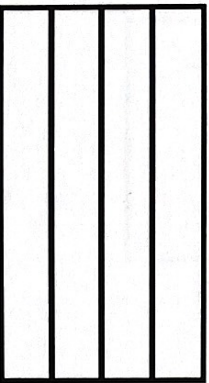
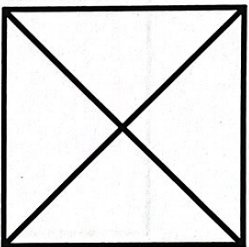
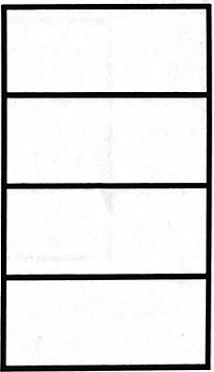
Gawin Natin 'to

Hatiin ang mga sumusunod na hugis sa apat na magkapantay-pantay na bahagi.



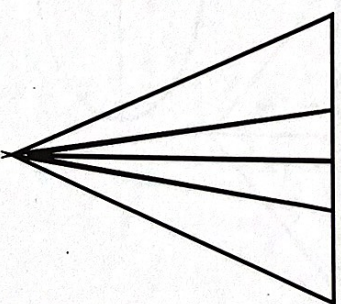
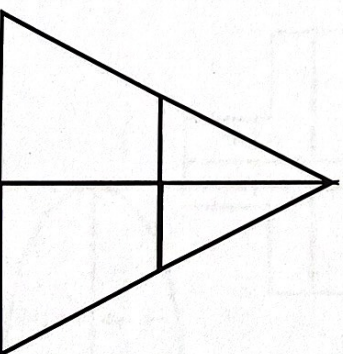
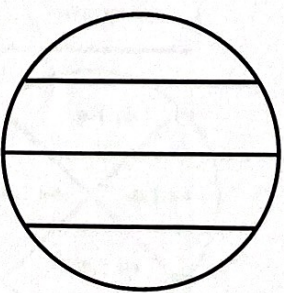
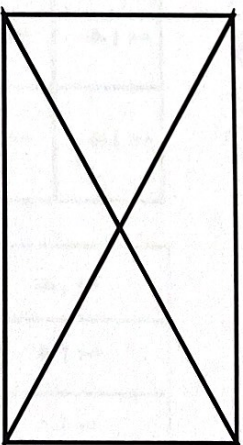
? Suriin Natin 'to

May iba't ibang paraan ng paghati sa apat nang magkapantay. Ilan lamang sa mga ito ay:



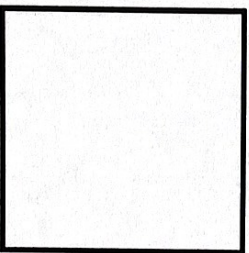
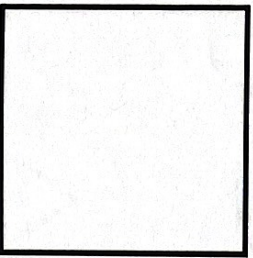
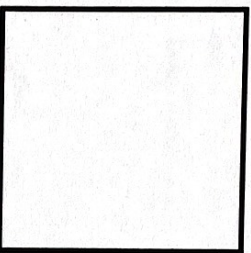
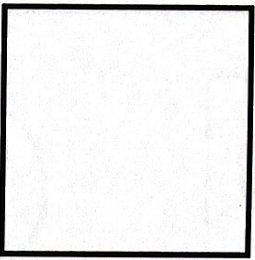
Ang mga sumusunod naman ay halimbawa ng nahati sa apat ngunit sa hindi magkakapantay na paraan at

HINDI sila $\frac{1}{4}$.



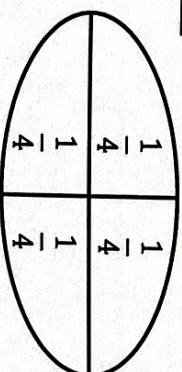
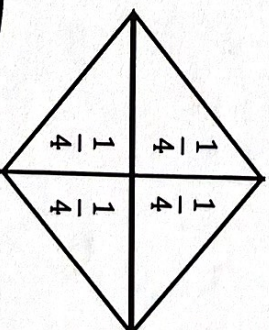
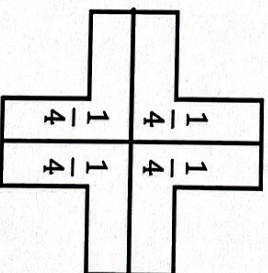
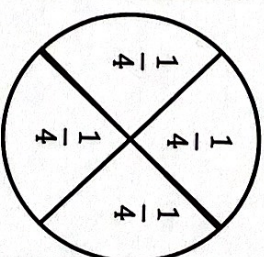
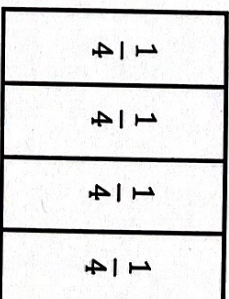
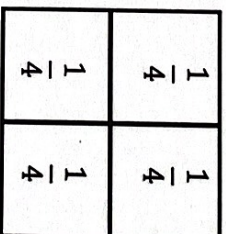
Gawin Natin 'to

Hatiin sa apat na magkapantay-pantay na bahagi ang bawat parisukat. Magbigay ng magkakaibang paraan pagkakahati.



Isang Kapat o One Fourth ($\frac{1}{4}$)

Ang isang piraso ng isang buong hinati sa apat nang magkakapantay na bahagi ay tinatawag na isang kapat o one fourth ($\frac{1}{4}$).





University of Southern Mindanao
EXTENSION SERVICES OFFICE
Kabacan, North Cotabato



MONITORING/ ACCOMPLISHMENT REPORT

for the 1st Quarter, C.Y. 2023

Project Title: Strengthening Mother-tongue based Education of Elementary Teachers in DepEd Cotabato/MBHTE BARM through Development and Validation of Instructional Materials for Elementary Mathematics

Proponent/s: Philip Lester Benjamin, Sandra Nanding, Leorence Tandog, Debbie Marie Verzosa, Florie Jane Tamon, Rowel Madio, Roel Valenton, Anna Jean Garcia, Leonard Paleta, Meriam Rubio, Jeaneth Licaros, Daryl Mae Mamon, Jonalid Pimentel, Jennifer Pama, Honey Vincent Valle

College/Unit: Graduate School/College of Science and Mathematics

ACTIVITIES	Accomplishment		% Completion (Cumulative)	Problem/s Encountered	Action/s Taken	Remarks/ Recommendations
	Target	Actual				
Obtain necessary permissions and approvals from relevant authorities	10%	100%	10%	None	None	
Conduct profiling and needs assessment	20%	100%	30%	None	None	

Prepared by:

Noted by:


PHILIP LESTER P. BENJAMIN
Project Leader


LEORENCE C. TANDOG
College/Unit Head

MARY JOY S. CAÑOLAS
Director for Extension Services

April 7, 2023
Date

April 10, 2023
Date

April 10, 2023
Date

NTP # 2023-E009

January 26, 2023

PROF. PHILIP LESTER P. BENJAMIN

University of Southern Mindanao

Kabacan, Cotabato

Dear **PROF. BENJAMIN**,

Your extension project proposal had been approved by the URDEC for 2023 funding in the amount of Php 60,000.00 (Extension Fund-05) allocation. Notice is hereby given that the conduct of the project/study entitled **"Strengthening mother-tongue based education of elementary teachers in Dep-Ed Cotabato/MBHTE BARMM through instructional materials development and validation"** may commence not later than 7 days after the receipt of this notice up to December 2023.

As Project Leader, you shall be responsible for ensuring the completion of the extension project in accordance with the approved work and financial plan. Furthermore, you have to submit a quarterly progress report and news feature article about your activities. Make oral presentation during the University Research, Development and Extension In-House Reviews. Upon completion of the project, you have to submit six (6) copies of the terminal report not later than March 2024. Acknowledge ESO in all reports, articles and media releases related to the project. By virtue of this designation, you shall be entitled to corresponding honorarium subject to existing laws or policy on this matter.


In the event that you discontinue the extension project without justifiable reasons or deliberately avoid your responsibilities stated above, you have to refund/return to the management the total amount you have actually spent.

Please acknowledge receipt and acceptance of this NOTICE by signing both copies in the space provided below.


Very truly yours,


MARY JOY S. CAÑOLAS, PhD
Director for Extension

Recommending approval:


MA. TEOBORA N. CABASAN, PhD
Vice Pres. for Res., Dev't. & Ext'n. and
Vice-Chairman, URDEC

Approved by:


FRANCISCO G. GARCIA, PhD
SUC President IV, USM and
Chairman, URDEC

Conforme:


PHILIP LESTER P. BENJAMIN
Project Leader

Project Title

: Strengthening mother-tongue based education of elementary teachers in Dep-Ed Cotabato/MBHT BARM through instructional materials development and Validation"

Project Leader

: Philip Lester P. Benjamin

Component 1

: Development of high-quality mother-tongue based instructional materials in elementary mathematics that effectively engaged and educate students.

Component Leader

: Philip Lester P. Benjamin

Component 2

: Validation of mother-tongue based instructional materials developed for elementary mathematics through feedback from teachers, students, and parents.

Component Leader

: Sandra A. Nanding



UNIVERSITY OF SOUTH MINDANAO

November 16, 2023

Hon. Datu Matog Lumambas
Kapitan, Nangaan, Kabacan
Cotabato

Dear Kapitan Lumambas,

I hope this letter finds you in good health and high spirits.

I am writing on behalf of our team involved in the extension project titled "Strengthening Mother-Tongue Based Education of Elementary Teachers in DepEd Cotabato through Instructional Materials Development and Validation." We are eager to collaborate with your local elementary school in your barangay to enhance the educational experience for both teachers and students.

We kindly request your permission to conduct our project activities at the local elementary school in your barangay.

We believe that our project can greatly contribute to the enhancement of mother-tongue based education in your school, and we are enthusiastic about the potential positive impact it can have on the learning environment.

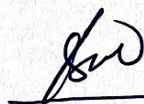
Your support and cooperation in this endeavor would be invaluable, and we look forward to the opportunity to work together.

Thank you for considering our request. We anticipate a fruitful partnership that will benefit the educational community at the local elementary school in your barangay.

Warm regards,


Philip Lester P. Benjamin, Ph.D.
CSM Extension Project Leader

Received by:



DATU L. ABAS

"UNITY IN DIVERSITY AND
SUSTAINABLE DEVELOPMENT IN
MINDANAO THROUGH QUALITY AND RELEVANT EDUCATION."

Attachments

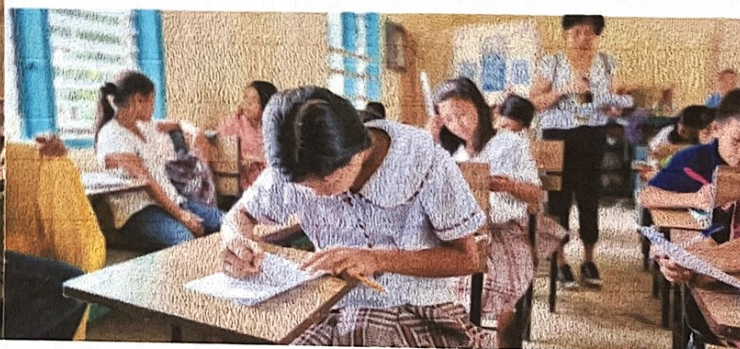
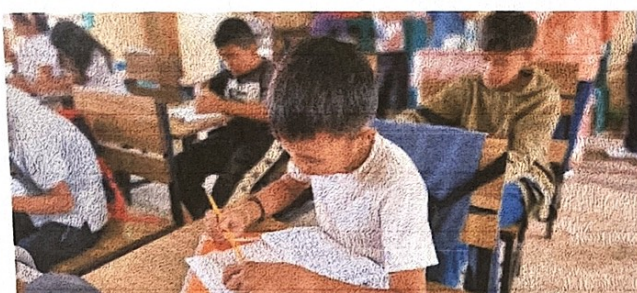
Inception meeting and conduct of needs assessment



This photo was captured during our visit to Nangaan, Kabacan, Cotabato, where we conducted a needs assessment and held an inception meeting. Prior to our activities, we sought permission from the Barangay Captain as a courtesy. Our visit aimed to understand the community's needs and gather insights to inform the development of our project.



Pre-test




During our visit, we also gave a test before starting our project. This test helped us understand how well students and teachers already knew about fractions in math. The results will help us see if our project helps them learn better.

Result of Needs Assessment

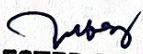
During our visit to Nangaan Elementary School to conduct a needs assessment, several needs were identified among the educators:

1. They need more materials to help teach fractions better.
2. They want easier ways to explain fractions to students.
3. They think it's important to use the students' own language and culture when teaching math.
4. Teachers want training to improve how they teach math, especially fractions.
5. They believe sharing ideas and materials with other teachers is important for improving teaching.

Prepared by:


SANDRA A. NANDING
Component Leader

Noted by:


PHILIP LESTER P. BENJAMIN, PhD
Project Leader



TERMINAL REPORT





TERMINAL REPORT

Strengthening Mother-tongue based Education of Elementary Teachers in DepEd Cotabato/MBHTE BARMM through Instructional Materials Development and Validation

Philip Lester P. Benjamin
College/Unit Head/Project Leader

Sandra A. Nanding
Component Leader

Debbie Marie Verzosa
Leorence Tandog
Florie Jane Tamon
Rowel Madio
Roel Valenton
Anna Jean Garcia
Leonard Paleta
Meriam Rubio
Jeaneth Licaros
Daryl Mae Mamon
Jonald Pimentel
Jennifer Pama
Honey Vicent Valle
Members



TERMINAL REPORT

I. Executive Summary

This extension project aims to strengthen mother-tongue based education in the DepEd Cotabato Division through the development of instructional materials and capacity building for elementary teachers. The project is grounded in promoting linguistic and cultural diversity, improving student learning outcomes, and addressing the specific needs of students in the region.

By providing students with the opportunity to learn in their mother-tongue, the project seeks to preserve and promote linguistic and cultural heritage. Research indicates that students learn better when taught in their mother-tongue, which underscores the importance of this initiative in improving academic outcomes.

The project's objectives include developing high-quality mother-tongue based instructional materials in elementary mathematics and validating these materials through data analysis and feedback from teachers, students, and parents. By tailoring materials to students' linguistic and cultural backgrounds and building teachers' capacity to teach in the mother-tongue, the project aims to enhance education quality and promote diversity in the region.

A courtesy call was made to Barangay Captain Hon. Lumambas and the principal of Nangaan Elementary School, Ma'am Salapudin, to introduce the CSM's extension project for the school year 2023-2024. This project aims to support elementary teachers in enhancing their teaching by providing supplementary instructional materials for challenging topics in mathematics. The CSM extension unit, in collaboration with faculty members, conducted an inception meeting and needs assessment on November 16, 2023. Subsequently, a training-workshop on instructional material (IM) development and validating a developed instructional material was held in December.

Through this initiative, the CSM seeks to contribute positively to the professional development of elementary teachers and ultimately enhance the quality of education provided to students.

II. Financial Report

Budget Utilization

Component	Allocation	Utilized	% Utilized
Component 1: Development of high-quality mother-tongue based instructional materials in elementary mathematics that effectively engage and educate students.	1 st Quarter	3,500	100%
	2 nd Quarter	23,500	100%



TERMINAL REPORT

Component 2: Validation of mother-tongue based instructional materials developed for elementary mathematics through feedback from teachers, students, and parents.	3 rd Quarter	29,958.38	100%
	4 th Quarter	2,978.38	100%

III. Major Activities Undertaken

In February 2023, we initiated contact with a local elementary school representative and introduced our extension project, receiving positive feedback and providing a detailed project plan. Subsequently, we gathered necessary documentation, including consent forms, and secured permission to proceed, using an existing memorandum of agreement for efficiency and compliance.

In March 2023, a thorough needs assessment highlighted a specific need for mathematics support among Maguindanaon tribe students, emphasizing the importance of mother-tongue instruction. This insight guided our project's focus.

By June 2023, significant progress was made in revising our learning materials, with meticulous content review to ensure quality and alignment with project objectives.

On November 16, 2023, we conducted an inception meeting and pre-test at Nangaan Elementary School, identifying the need to adjust some materials due to language evolution among students.

On December 6, 2023, we conducted a program divided into two parts. The first part was a training session led by Dr. Debbie Marie B. Verzosa on instructional material (IM) development and validation. The teachers responded positively to the training, expressing enthusiasm and appreciation for the insights shared. The second part of the program involved the dissemination of the IM to the teachers. Each teacher received a copy of the IM, along with guidance on its implementation. The teachers were encouraged to provide feedback and suggestions for further improvement. Overall, the program was a success, and we are confident that the IM will greatly benefit the students' learning experience.

IV. Problems met during the conduct of the project

1. Changes in purchase requests (PRs) created delays in procurement
2. Conflict in availability of team members and stakeholders
3. Delayed release of project budget
4. Unforeseen weather conditions disrupting field activities
5. Changes in government policies affecting project plans
6. Insufficient staffing and resources allocated

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V. Recommendations

1. Establish a clear and streamlined process for PR creation and approval to minimize changes and delays.
2. Coordinate schedules in advance to ensure availability of all parties involved in project activities.
3. Advocate for timely release of project budgets and maintain regular communication with the funding agency.
4. Develop contingency plans for weather-related disruptions, such as rescheduling activities or implementing remote work arrangements.
5. Stay updated on government policies and regulations, and adapt project plans accordingly.
6. Allocate additional resources or personnel to address workload challenges and ensure timely project delivery.

VI. Project Impact/Output

The project is expected to at least generate the following:

Outputs:

- Developed and validated mathematics instructional materials tailored for mother-tongue based education.
- Improved mathematics academic performance and learning outcomes for students through the use of these materials.

Impact:

- Increased cultural pride and self-esteem among students as they see their language and culture represented in their education.
- Strengthened linguistic and cultural identity among students, fostering a sense of belonging and connection to their heritage.
- Enhanced quality of education in the area by providing effective and culturally relevant teaching materials, ultimately improving student engagement and understanding in mathematics.

VII. Supplemental Activities

VIII. Other Accomplishment

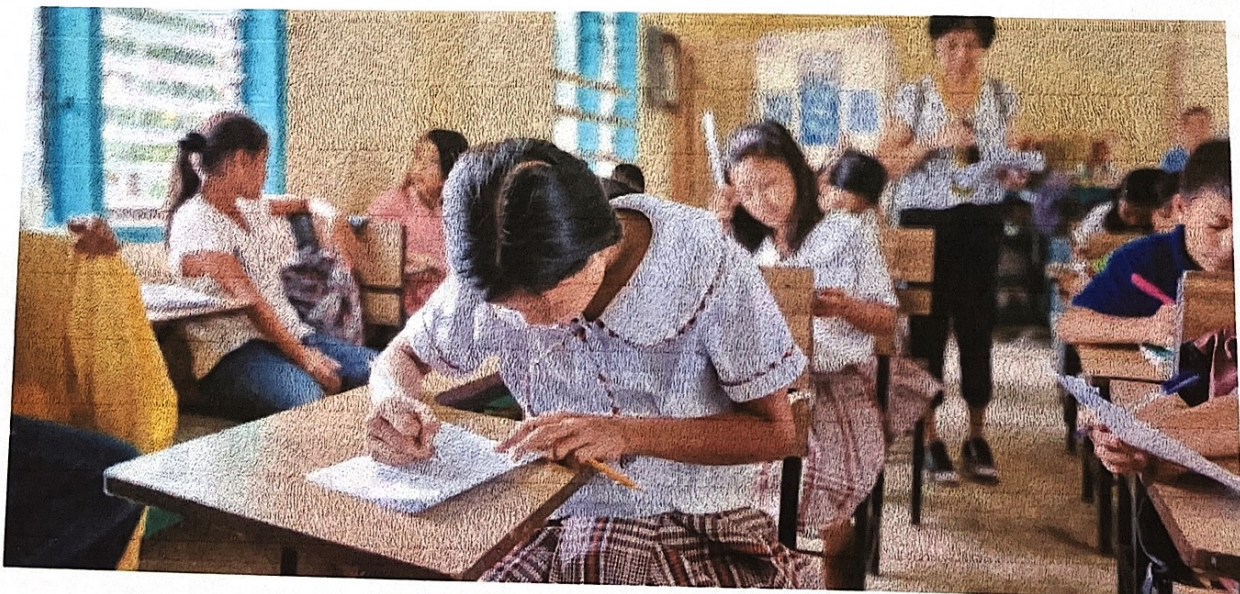
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IX. Pictorials



Inception Meeting with Teachers of Nangaan Elementary School



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Kabacan, North Cotabato
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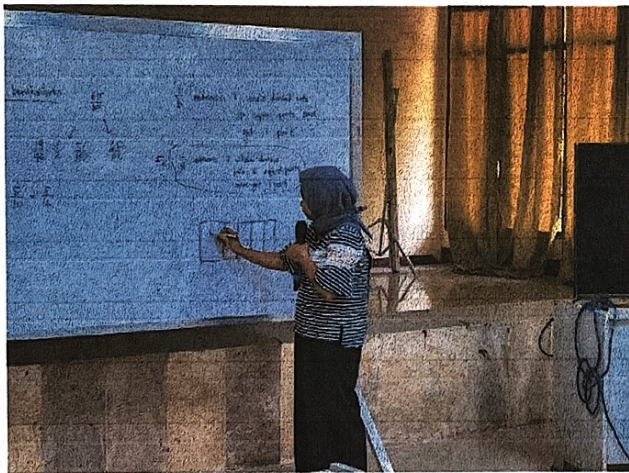
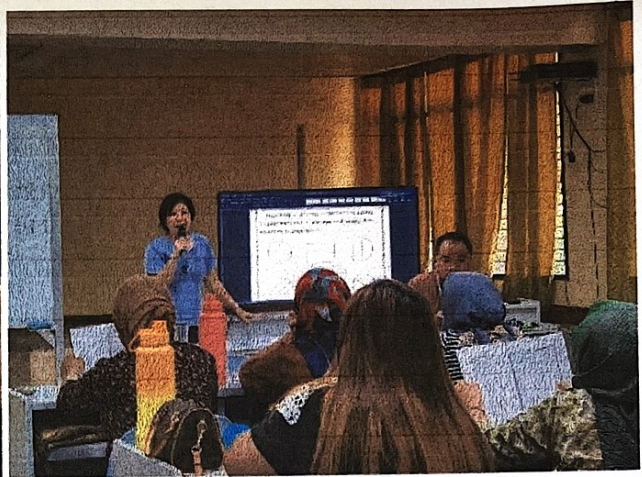
Conduct of needs assessment and Pre-test



Visit at Nangaan Elementary School

Kabacan, North Cotabato

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Training on IM Development and Validation of IM with the resource person Dr. Verzosa.



Kabacan, North Cotabato

TERMINAL REPORT



Teachers from Nangaan Elementary School participate in a training session on Instructional Material (IM) development, featuring Dr. Verzosa as the resource speaker.



Republic of the Philippines
UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato

LINKAGES ON RESEARCH CY 2021

Department of Agriculture (DA)	Provided funding on a project ‘Establishing Baseline Agriculture Performance and Rural Development Indicators’ (<i>Proponents: Francisco Gil N. Garcia, Geoffray R. Atok, Jalaloden B. Marohom, Nerissa G. Dela Viña and Jennet Mag-aso</i>)
Department of Agriculture – Regional Field Office XII (DA-RFO XII)	Provided funding on a project ‘University of Southern Mindanao Urban Mushroom Production and Community Garden’ (<i>Proponents: Joan P. Sadoral, Adeflor G. Garcia and Purification O. Cahatian</i>)
Department of Agriculture – Agricultural Competitiveness Enhancement Fund (DA-ACEF)	Provided funding on projects: <ol style="list-style-type: none">1. Upgrading of Tissue Cultures Facility in University of Southern Mindanao (<i>Proponents: Mark Al-Jamie J. Mutullani, Harem R. Roca and Edward A. Barlaan</i>)2. Upgrading of High Value Crops Food Processing Laboratory at University of Southern Mindanao (<i>Proponents: Sandra Joy P. Pahm and Harem R. Roca</i>)
Department of Science and Technology – Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST-PCAARRD)	Provided funding on projects: <ol style="list-style-type: none">1. Accelerated R&D Program for Capacity Building of Research and Development Institutions and Industrial Competitiveness: NICHE centers in the regions for R&D (NICER) Program: Cacao R&D Center (<i>Proponents: Edward A. Barlaan, Gwen Iris D. Empleo and Renel M. Alucilja</i>)2. Upgrading of Cacao Post-Harvest Processing Center Facilities of USM (<i>Proponent: Harem R. Roca</i>)3. USM IP-TBM Phase II: Patent Mining of Rubber Technologies thru Intellectual Property and Technology Business Management (IP-TBM) Operations of the University of Southern Mindanao (<i>Proponents: Pia Amabelle M. Flores and Cyrelle M. Besana</i>)4. Screening of Potential Endophytes as Biocontrol Agent against Major in Emerging Leaf Diseases of Rubber (<i>Proponents: Tamie C. Solpot, Ma. Teodora N. Cabasan and Bernadith T. Borja</i>)
National Research Council of the Philippines (NRCP)	Provided funding on a program ‘Human-Macaque Interface (HUMAIN): Mitigation of Conflicts and Zoonosis in Human-Modified Habitats on Selected Tourist Areas in Leyte and Mindanao Islands’ (<i>Proponents: Lothy F. Casim, Cyrelle M. Besana and Leanne Jay S. Manceras</i>)

Prepared by:

MARY GRACE D. SAMULDE
Admin Staff

INTERNATIONAL LINKAGES

No.	A. MOAS/MOUS	Agencies Involved (USM with.....)	Nature of Linkages	Ongoing/Completed Projects/Activities
5	MOU	The Halal Science Center Chulalongkorn University, Thailand	Academic Cooperation through research & study	Advancement of learning through promotion of cooperation, international understanding & goodwill; exchange program <ul style="list-style-type: none"> - Dec. 28, 2014 - Good for 5 years
6	MOU	National Taiwan University of Science and Technology	Collaboration & cooperation	Exchange of best practices or academic matters; sharing of research outputs; exchange of faculty, students/scholars; Enhance the degree of Cooperation and Collaboration. <ul style="list-style-type: none"> - 2017
7	MOU	Universitas Muhammadiyah Sidoarjo (UMSIDA), Indonesia	Cooperation communicative and cooperative partnership	Reaching mutual partnership, promoting scholar and student exchanges, as well as sharing of Information and materials related to academic Purposes. <ul style="list-style-type: none"> - January 11, 2017
8	MOU	Universitas Muhammadiyah Gresik, Indonesia	Mutual partnership	Reaching mutual partnership, promoting scholar and student, exchanges, as well as sharing of information and materials related to academic purposes; cooperate on certain programs
9	MOU	Faculty of Agriculture, Khon Kaen University Nai-Muang Khon Kaen 40002, Thailand	Academic exchange & cooperative education & research	Develop academic exchange & cooperative education & research;

				Promote international academic cooperation <ul style="list-style-type: none"> - May 15, 2015 - 5 years
10	MOU	Australian Centre for International Agricultural Research (ACIAR)	Partnership in Agricultural Research Contractual Agreement	Develop future research projects esp related to agriculture <ul style="list-style-type: none"> - In force until terminated in writing by either party - May 10, 2015
11	MOU	Shu-Te University (STU), Taiwan	Partnership Cooperation & collaboration	Exchange of faculty members and students for lectures, seminars, discussions and cultural activities; organization & participation in joint academic activities such as conference, workshops, publications and seminars; joint collaboration; joint research; cooperation & collaboration <ul style="list-style-type: none"> - June 15, 2015
12	MOA	Fundacion Accion Contra el Hambre (ACF International- Philippine Mission)	Internship	Student internship program <ul style="list-style-type: none"> - 160 hours (December 2014- January 2015)
13	MOU	Sultan Syarif Kasim State Islamic University of Riau, Indonesia	Mutual cooperation in education & training	Advancement of knowledge and intellectual development; bilateral cooperation in the field of higher education, research and training; Agreement of Scholarly Exchange and Collaboration <ul style="list-style-type: none"> - February 9, 2014 - 5 years

NATIONAL/LOCAL LINKAGES

No.	A. MOAS/MOUS	Agencies Involved (USM with....)	Nature of Linkages	Ongoing/Completed Projects/Activities
1	MOA	National Academy of Science and Technology, Philippines (NAST PHL)	Collaboration	Project on Capability-Building & Sustainable Biotechnology Information, Education & Communication for DOST & LGU Key Personnel (DOST-Grants-In-Aid Program) - September 2, 2014 to December 31, 2014

2	MOA	DA-BAR DA-ATI DA-RFU XII DOST XII DENR XII NEDA XII MSU General Santos City MSU Maguindanao SKPSC PhilRice – Midsayap SCC LGU South Cotabato LGU Sarangani LGU North Cotabato CCSPC NIA XII MBRLC PCAARRD	Collaboration	Engage in research & development through acceleration, generation, verification, utilization & commercialization of technologies in Agriculture, Forestry, Environmental & Natural resources (AFNR) sectors; Management of the regional S & T consortium (Cotabato Agriculture & Resources Research, Development Consortium (CARRDEC) <ul style="list-style-type: none"> - December 29, 2010 - 10 years
3	MOU	Asian Hybrid Seed Technologies, Inc.	Research Collaboration	Technology improvement by AHSTI to produce excellent & high yielding corn; Utilization of Biotech Services <ul style="list-style-type: none"> - August 3, 2015 - 1 year
4	MOU	Jay Lloyd R. Mearns	Transfer of technology	Transfer of Technology (as part of USM extension function, production of meriplants for tissue culture activities collaboration) <ul style="list-style-type: none"> - March 3, 2015 - 1 year

14	MOU	Tuladan Development Center Incorporated (TDCI)	Collaborators	Supporting the establishment and operation of livelihood development program in the community.
15	MOA	Hon. Raymundo Gracia, Barangay Captain Barangay Dagupan	Partnership	Partnership in the field of SMAW (Shielded Metal Arc Welding), and Skills Training for Community development.
16	MOU	Isabela State University	Partnership	To work and collaborate together as partners in the areas of research, instruction, resource management, faculty exchange.
17	MOA	Department of Agrarian Reform Provincial Office- Sultan Kudarat (DARPO-SK)	Contracting Institution	Technology trainings for Cacao, Rubber and Coffee sub projects.
18	MOA	Department of Agriculture- Regional Field Office XI (DA-RFO XI)	Facilitator	Procurement of the 2,000 Certified OPV White Corn Seeds at 20 kg./bag in support to 2016 OPV Bufferstocking Program.
19	MOU	Department of Agriculture Regional Office XII (DA-RFO XII)	Partnership	DA-RFO XII, USM and the PLGU affirmation of partnership
20	MOU	Bangko Sentral ng Pilipinas (BSP)	Collaboration	BSP Knowledge Resource Network
21	MOA	The Philippine Atmospheric, Geophysical and Astronomical Services Administration, University of Southern Mindanao, Provincial Government of Cotabato, Municipal Government of Arakan, City Government of Kidapawan	Collaboration	Climate Forecast and Extension Advisory (CLEA)
22	MOA	Philippine Crop Insurance Corporation (PCIC) and USM- RSPP Special Project Under CHED-NAFES	Partnership	National Government's Food Security and poverty Reduction Programs
23	MOA	Al-Mujahidun Agro Resources and Development, INC. (AMARDI)	Collaborators	Collaboration on Learning and Building Capacity

24	MOA	Cotabato Agriculture, Aquatic and Natural Resources Research and Development Consortium (CAARRDEC)	Join Agreement	Consortium- the exclusive promotion of Science and Technology applications in the region for Agriculture, Aquatic, Forestry and Natural Resources sector.
25	MOA	DepEd USM	Agreement	DepEd Teachers' Competency Enhancement Program
26	MOA	DepEd TESDA DTI DOLE Office of Provincial Agriculture DOST SUCs HEIs Department of Tourism USM CFCST NDMC SCC SBC Private Industries Don Bosco Foundation Energy Development Corporation DOLE-STANFILCO DXND, Notre Dame Broadcasting Corporation	Collaboration	Improving mechanisms and systems in the implementation of SHS Program by supporting a strategic Modelling scheme SY 2014-2015 and early implementation on SY 2015-2016 in preparation for the full implementation on SY 2016-2017.
27	MOA	DSWD USM	Partnership	DSWD-USM Partnership Training Project.
28	MOA	East West Rural Bank, Inc.	Agreement	Payroll Deduction Agreement

29	MOA	Southern Philippines Agri-Business and Marine and Aquatic School of Technology USM	Collaboration	Cater the educational needs of the target areas specifically in the Disciplines of agriculture and ensure quality and relevance in offering the identified graduate programs
30	MOA	Women Indigenous Focus for Enhancement (WIFE), Inc. USM	Partnership	University Extension Services Center support WIFE, Inc. through training programs and other extension activities.
31	MOU	Mindanao Development Authority (MinDA) USM	Partnership	Mindanao Knowledge Research and Policy Center (MKRPC) created as a mechanism to provide evidence-based policy analysis and advice to government, business, and general public.
32	MOA	CMU USM	Partnership	Support the noble endeavor of strengthening ties and promoting academic and cultural exchanges between the two universities.
33	MOU	USM Romeo J. Anuta	Adaptor	Capacity enhancement of small rubber farmers through adoption of improved latex stimulation, harvesting and processing technologies.
	MOA	ATI	Collaboration	
	MOU	Bangko Sentral ng Pilipinas	Collaboration	
	MOA	BA-BAR DA-ATI DA-Regional Field Unit XII Department of Science and Technology XII Department of Environment and Natural Resources-Region XII		

		NEDA-Region XII USM MSU MSU-Gensan MSU- Maguindanao Sultan Kudarat Polytechnic State College Philippine Rice Research Institute- Midsayap Experimental Station Southern Christian College LGU South Cotabato LGU North Cotabato Cotabato City State Polytechnic College National Irrigation Administration-XII Mindanao Baptist Rural Learning Center Philippine Council for Agriculture, Forestry and Natural Resources Research and Development		
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No.	B. Other Linkages	Agencies Involved	Nature of Linkages	Ongoing/Completed Projects/Activities
1	Agreement of Cooperation	University of California	Agreement	Development of basic scientific and technological research, and graduate and undergraduate education at the two institutions.
2	Framework Agreement for Scientific Cooperation	Centre de cooperation internationale en recherche agronomique pour le developpement (CIRAD)		

3	Letter of Understanding	Centre for Development Innovation (CDI)	Joint Collaboration	To join a short course in Lost Harvest and Wasted Food from CDI.
4	Grant Agreement	World Cocoa Foundation	Grant Funding	Proj. Establishment, Maintenance and Evaluation of Field Trials to test the Best Asia/ Pacific Regional Crosses
5	Letter of Agreement	International Rice Research Institute (IRRI)	Collaboration	Proj. Reducing Risk and Rice Livelihoods in Southeast Asia through the Consortium for unfavorable Rice Environments.
6	Memorandum of Partnership	Brokenshire Integrated Health Ministries, INC. (BIHMI), Kimadzil Integrated Health Association (KIHA), Ranzo Integrated Health Care Organization (RIHCO) USM Hospital	Partnership	Health Ensurance Program (HEP)